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Amendments to the Claims:

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The following listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Original) An LED illumination system, comprising:
- a) an LED module in which
- a substrate,
- a heat conducting layer provided on the substrate and made of an insulating material, a conductive layer provided on the heat conducting layer and having a predetermined pattern,
- a light emitting diode chip provided in a predetermined position on the conductive layer,
- a connector part having a module thermally contacting portion for conveying heat from the heat conducting layer and
 - a power supplying terminal provided in an end portion of said substrate, are provided; and
 - b) a socket for supporting said connector part, in which
- a socket thermally contacting portion having a surface contact with said module thermally contacting portion, and
 - a terminal connected to the power supplying terminal of said connector part, are provided.
- 2. (Original) The LED illumination system according to claim 1, wherein said heat conducting layer is made of diamond, diamond-like carbon or carbon nanotubes.

- 3. (Currently Amended) The LED illumination system according to claim 1-or 2, wherein a reflector for reflecting light from a light emitting diode and releasing heat from the socket to the surrounding air is provided.
- 4. (Original) The LED illumination system according to claim 3, wherein the substrate of the LED module makes contact with said reflector.
- 5. (Currently Amended) The LED illumination system according to one of elaims 1 to 4 claim 1, wherein a temperature sensor is provided in said LED module.
- 6. (Original) The LED illumination system according to claim 5, wherein a control part for controlling the power supplied to an LED chip in response to a signal that is received from said temperature sensor is provided.
 - 7. (Original) An LED module, comprising:
 - a) a substrate;
- b) a heat conducting layer provided on said substrate and made of an insulating material;
- c) a conductive layer provided on said heat conducting layer and having a predetermined pattern;
- d) a light emitting diode chip provided in a predetermined position on said conductive layer; and
- e) a connector part having a module thermally contacting portion for conveying heat from the substrate and the heat conducting layer and a power supply terminal, provided in an end portion of said substrate.

- 8. (Original) The LED module according to claim 7, wherein said heat conducting layer is made of diamond, diamond-like carbon or carbon nanotubes.
- 9. (Currently Amended) The LED module according to claim 7-or 8, wherein a temperature sensor is provided.
- 10. (Currently Amended) A socket for an LED module, which is a socket for supporting the connector part of the LED module according to one of claims 7 to 9 claim 7, comprising: a socket thermally contacting portion for making a surface contact with the module thermally contacting portion of the connector part; and a terminal connected to the power supply terminal of said connector part.
- 11. (Original) The socket for an LED module according to claim 10, wherein a heat releasing part for releasing heat to the surrounding air is provided around the socket.
- 12. (New) The LED illumination system according to claim 2, wherein a reflector for reflecting light from a light emitting diode and releasing heat from the socket to the surrounding air is provided.
- 13. (New) The LED illumination system according to claim 2, wherein a temperature sensor is provided in said LED module.
- 14. (New) The LED illumination system according to claim 3, wherein a temperature sensor is provided in said LED module.

- 15. (New) The LED illumination system according to claim 4, wherein a temperature sensor is provided in said LED module.
- 16. (New) The LED module according to claim 8, wherein a temperature sensor is provided.
- 17. (New) A socket for an LED module, which is a socket for supporting the connector part of the LED module according to claim 8, comprising: a socket thermally contacting portion for making a surface contact with the module thermally contacting portion of the connector part; and a terminal connected to the power supply terminal of said connector part.
- 18. (New) A socket for an LED module, which is a socket for supporting the connector part of the LED module according to claim 8, comprising: a socket thermally contacting portion for making a surface contact with the module thermally contacting portion of the connector part; and a terminal connected to the power supply terminal of said connector part.